## Docket No. 217 - Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

| Date:                | September 10, 2004  |
|----------------------|---|
| Inspector:           | Chuck Gidman  |
| Location:            | Norwalk Substation Expansion  |
| Storm/<br>Rain Event | Approximately 2.34" of rain have fallen over 9/8-9/9 in a large rain event. |

| Areas of Inspection     | Observation   | Recommended Action   |
|-------------------------|---|--|
| Access Roads            | - Access roads are completely accessible but are muddy following the rain. 9/10/04  | - None at this time. Continue to monitor. 9/10/04  |
|                         | -New Canaan Avenue is still<br>free of tracked sediment from<br>the Norwalk site. 9/10/04   | - None at this time. Continue to monitor. 9/10/04  |
| Foundation construction | - Construction of the conduit<br>bank is ongoing near the<br>control house. Working<br>stockpiles are located up near<br>the Route 7 ramp as a result.<br>9/2-9/10/04 | - The piles have not shown signs of migrating however plastic sheeting or haybales should be used if it becomes necessary. 9/10/04 |
|                         | - The construction of retaining retaining wall #3 is ongoing and nearing completion. 9/10/04  | - These areas are muddy but well contained at this time. 9/10/04   |
|                         | - Excavation for conduit construction near the overflow channel is largely complete but restoration measures are still necessary. 9/10/04                             |  |

| Areas of Inspection   | Observation  | Recommended Action  |
|---|--|---|
| Erosion and Sediment<br>Controls<br>(includes inspection within 24<br>hours of a storm event) | - The section of silt fence that had come down across the overflow channel has been removed as appropriate. 9/10/04 - Remaining areas of fence appear to be in good shape. 9/10/04   | - Continue to be proactive in silt fence repair and maintenance.  |
|   | - The edge of the yard and bike path at the northern portion of the yard had experienced some washout and erosion. However, the resource area was not affected at this time. 9/2-9/10/04   | - Continue to monitor this area during revegetation. A check dam should be installed along the bike path to slow velocities. 9/10/04                                |
|   | - The topsoil stockpile remains well contained along the retaining wall and fill activities continue to the east of wall #2. 6/30-9/10/04  | - The pile will continue to be used where necessary in areas to be grassed in the future and all soil is well contained. 6/30-9/10/04                               |
|   | -The overflow channel held a large amount of water directly following the storm and still had flow within the meandering channel during the inspection. 9/10/04  - An eroded gully had occurred in the bank of the channel as a result of the rain. A haybale check dam was installed. 9/10/04  - Some additional erosion had occurred along the eastern side of the channel. A berm was removed and the area graded to created more sheet flow. | - The gully should be repaired and vegetative cover should be established on the area adjacent to the channel as soon as possible to help minimize erosion. 9/10/04 |

| Areas of Inspection  | Observation  | Recommended Action   |
|--|--|--|
| Erosion and Sediment<br>Controls continued                                       | - The coconut fiber logs had received moisture as a result of the storm but there are ongoing discussions to lower the elevation of the logs to retain moisture and help seeding. 9/10/04      | -The option to remove stone<br>beneath the logs so they rest<br>on the channel liner is likely<br>the preferred option. 9/2-<br>9/10/04  |
|  | -Some areas adjacent to the overflow channel still have fairly sparse vegetative cover. 8/12-9/10//04  | -Getting seed and cover to establish here will be important before the growing season is over. The contractors are waiting to do final stabilization here once all adjacent work is complete. 8/26-9/10/04 |
| Inland Wetland and<br>Watercourse encroachment<br>and mitigation                 | - Most areas have sufficient vegetative cover but a few areas remain sparse. The area adjacent to the channel especially requires stabilization as the storms cause some erosion here. 9/10/04 | - Continue to monitor silt fence and repair as necessary, especially in the portions closest to the river. 9/10/04   |
| State species of concern, threatened and endangered species                      | - No species of concern are located in this area of construction.  | - N/A  |
| Vegetative clearing limits<br>(including trees to save or<br>danger trees noted) | -There should be no need for further clearing for most of the site. Landscaping is planned for along the bike path and native species are to be used. 9/10/04                                  | - The old scour area will be monitored for cover. Future observations may find that a more significant root structure is needed here. 5/27-9/10/04   |
| Dewatering   | - Dewatering activities are complete at this time.   | -No actions required at this time.   |
| Blasting   | - No blasting is occurring on site at this time and it is not anticipated to be necessary.   | - None at this time.   |

| Areas of Inspection     | Observation  | Recommended Action  |
|-------------------------|--|---|
| Spills                  | - There were no spills reported during the week. Several diapers were noted under stationary equipment to prevent any potential drips. 9/10/04  - A small fuel leak was noted on a piece of rental equipment and it was attended to immediately. 9/10/04 | - The contractors should remain vigilant about securing and handling fuel containers due to the sensitivity of the area  - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. Check equipment status on a regular basis.  - Report spills to the office immediately, even if they are being controlled. |
| Additional Observations | - As previously noted, new road work, including clearing has been identified on the bridge on Broad Street to the north. 9/10/04   | - The work is unrelated to the<br>Norwalk substation but should<br>be noted as it is occurring in<br>the adjacent area and could be<br>a potential off-site<br>sedimentation source. 9/10/04  |

| Next likely scheduled |                             |  |
|-----------------------|-----------------------------|--|
| inspection:           | Thursday September 16, 2004 |  |

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

| Inspector's Signature: | Diana Walden for Chuck Gidman |
|------------------------|-------------------------------|
|                        |                               |

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| Date:                | September 10, 2004   |
|----------------------|--|
| Inspector:           | Chuck Gidman   |
| Location:            | Plumtree Substation Expansion, Bethel                                |
| Storm/<br>Rain Event | Approximately 2.34" of rain fell over 9/8-9/9 in a large rain event. |

| Areas of Inspection   | Observation  | Recommended Action                                   |
|---|--|--|
| Access Roads  | - No new access roads have been constructed at this time 9/10/04   | - None at this time. 9/10/04                         |
| Foundation construction   | -Footing excavation and construction continues in the yard and initial work has begun on the GIS building foundation. 9/10/04  | - The areas are well contained at this time. 9/10/04 |
|   | - Several stockpiles of excavate are on site as a result of the work. Portions are being removed from the site and the remainder are being controlled with plastic sheeting. 9/10/04 |  |
| Erosion and Sediment<br>Controls<br>(includes inspection within 24<br>hours of a storm event) | - The recent rains have led to muddy conditions and standing water on site but all areas remains contained on site 9/10/04   | - None at this time 9/10/04                          |

| Areas of Inspection   | Observation  | Recommended Action   |
|---|--|--|
| Erosion and Sediment<br>Controls<br>(includes inspection within 24<br>hours of a storm event) | <ul> <li>There is no silt fence in place at this time, however most stockpiles are covered in plastic and no sedimentation has occurred. 9/10/04</li> <li>Small portions of the plastic cover have blown off the stockpiles due to the storm. 9/10/04</li> <li>The stone perimeter berm is well in place and contains the yard. 9/10/04</li> </ul> | -All areas are well-contained and there is no sedimentation near any off site areas. 9/10/04  - Continue to be proactive in silt fence placement and maintenance. The area noted will be repaired. 9/10/04 |
|   | - The concrete washout station has been disassembled for now but will be set up once concrete pouring resumes on site. 9/2-9/10/04   | - The main objective is to keep all washout water from storm drains and resource areas. 9/10/04  |
| Inland Wetland and<br>Watercourse encroachment<br>and mitigation                              | - Wetlands are located around the outskirts of the substation yard. Work is slightly closer to the perimeter fence than before but there is no noted sedimentation to the wetland area. 9/10/04  | - A stone berm around the perimeter of the yard prevents sedimentation and water from leaving the site and getting to the wetland edge. 9/10/04  |
| State species of concern,<br>threatened and endangered<br>species                             | - No species of concern are located in this area of construction.  | - N/A  |
| Vegetative clearing limits<br>(including trees to save or<br>danger trees noted)              | - No vegetation outside of the substation yard will need to be cleared during the expansion work.  | - N/A  |
| Dewatering  | - Dewatering activities have increased following the storms in order to remove standing water from the excavations. 9/10/04 - The water is being directed to a flat areas within the yard and is being directed away from the stockpiles. 9/10/04  | - The improved perimeter stone barrier is effective at holding water within the fence line and sedimentation has not occurred beyond the edge of the yard. 9/10/04   |

| Areas of Inspection        | Observation  | Recommended Action  |
|----------------------------|--|---|
| Blasting                   | - No blasting is occurring on site at this time.   | - None at this time.  |
| Spills                     | - There were no spills reported during the week or noted on site during the inspection. There are very few pieces of machinery on site at this time. 9/10/04 | <ul> <li>The contractors should remain vigilant about securing and handling fuel containers.</li> <li>Keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. Check equipment status on a regular basis.</li> <li>Report spills to the office immediately, even if they are being controlled.</li> </ul> |
| Additional<br>Observations |  |   |

| Next likely scheduled |                             |
|-----------------------|-----------------------------|
| inspection:           | Thursday September 16, 2004 |

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

|  | Inspector's Signature: | Diana Walden for Chuck Gidman |
|--|------------------------|-------------------------------|
|--|------------------------|-------------------------------|



View of the southern end of the overflow channel. Vegetation is still fairly sparse here and the overflow channel held water following the storm. 9/10/04



View of gully erosion at the edge of the overflow channel. A haybale check dam was installed but vegetative cover should be established as soon as possible. 9/10/04



Diapers were placed under several of the stationary pieces of equipment to control any potential drips. 9/10/04



View of the continuing work on retaining wall #3. 9/10/04



"Working piles" of soil near the Route 7 ramp due to the conduit work in this area. The piles are not migrating into the roadway but plastic sheeting or haybales should be installed if needed. 9/10/04



Plumtree Substation: Over all view of the ongoing footing/excavation work in the yard. 9/10/04



View of one of the dewatering outlets. The recent rain resulted in a lot of standing water/mud on site, but all areas are contained within the yard. 9/10/04



Some of the plastic covering on the stockpile had blown off due to the wind and will be replaced. The entire area remains contained within the yard. 9/10/04